

PC-0037 US

<110> Lal, Preeti
Faris, Mary
Chen, Huei-Mei
Ison, Craig H.

<120> STEAP-RELATED PROTEIN

<130> PC-0037 US

<140> To Be Assigned

<141> Herewith

<160> 11

<170> PERL Program

<210> 1

<211> 490

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7492448CD1

<400> 1

Met	Glu	Ser	Ile	Ser	Met	Met	Gly	Ser	Pro	Lys	Ser	Leu	Ser	Glu
1				5					10					15
Thr	Cys	Leu	Pro	Asn	Gly	Ile	Asn	Gly	Ile	Lys	Asp	Ala	Arg	Lys
				20					25					30
Val	Thr	Val	Gly	Val	Ile	Gly	Ser	Gly	Asp	Phe	Ala	Lys	Ser	Leu
				35					40					45
Thr	Ile	Arg	Leu	Ile	Arg	Cys	Gly	Tyr	His	Val	Val	Ile	Gly	Ser
				50					55					60
Arg	Asn	Pro	Lys	Phe	Ala	Ser	Glu	Phe	Phe	Pro	His	Val	Val	Asp
				65					70					75
Val	Thr	His	His	Glu	Asp	Ala	Leu	Thr	Lys	Thr	Asn	Ile	Ile	Phe
				80					85					90
Val	Ala	Ile	His	Arg	Glu	His	Tyr	Thr	Ser	Leu	Trp	Asp	Leu	Arg
				95					100					105
His	Leu	Leu	Val	Gly	Lys	Ile	Leu	Ile	Asp	Val	Ser	Asn	Asn	Met
				110					115					120
Arg	Ile	Asn	Gln	Tyr	Pro	Glu	Ser	Asn	Ala	Glu	Tyr	Leu	Ala	Ser
				125					130					135
Leu	Phe	Pro	Asp	Ser	Leu	Ile	Val	Lys	Gly	Phe	Asn	Val	Val	Ser
				140					145					150
Ala	Trp	Ala	Leu	Gln	Leu	Gly	Pro	Lys	Asp	Ala	Ser	Arg	Gln	Val
				155					160					165
Tyr	Ile	Cys	Ser	Asn	Asn	Ile	Gln	Ala	Arg	Gln	Gln	Val	Ile	Glu
				170					175					180
Leu	Ala	Arg	Gln	Leu	Asn	Phe	Ile	Pro	Ile	Asp	Leu	Gly	Ser	Leu
				185					190					195
Ser	Ser	Ala	Arg	Glu	Ile	Glu	Asn	Leu	Pro	Leu	Arg	Leu	Phe	Thr
				200					205					210
Leu	Trp	Arg	Gly	Pro	Val	Val	Val	Ala	Ile	Ser	Leu	Ala	Thr	Phe
				215					220					225

PC-0037 US

Phe Phe Leu Tyr Ser Phe Val Arg Asp Val Ile His Pro Tyr Ala
230 235 240
Arg Asn Gln Gln Ser Asp Phe Tyr Lys Ile Pro Ile Glu Ile Val
245 250 255
Asn Lys Thr Leu Pro Ile Val Ala Ile Thr Leu Leu Ser Leu Val
260 265 270
Tyr Leu Ala Gly Leu Leu Ala Ala Ala Tyr Gln Leu Tyr Tyr Gly
275 280 285
Thr Lys Tyr Arg Arg Phe Pro Pro Trp Leu Glu Thr Trp Leu Gln
290 295 300
Cys Arg Lys Gln Leu Gly Leu Leu Ser Phe Phe Phe Ala Met Val
305 310 315
His Val Ala Tyr Ser Leu Cys Leu Pro Met Arg Arg Ser Glu Arg
320 325 330
Tyr Leu Phe Leu Asn Met Ala Tyr Gln Gln Val His Ala Asn Ile
335 340 345
Glu Asn Ser Trp Asn Glu Glu Glu Val Trp Arg Ile Glu Met Tyr
350 355 360
Ile Ser Phe Gly Ile Met Ser Leu Gly Leu Leu Ser Leu Leu Ala
365 370 375
Val Thr Ser Ile Pro Ser Val Ser Asn Ala Leu Asn Trp Arg Glu
380 385 390
Phe Ser Phe Ile Gln Ser Thr Leu Gly Tyr Val Ala Leu Leu Ile
395 400 405
Ser Thr Phe His Val Leu Ile Tyr Gly Trp Lys Arg Ala Phe Glu
410 415 420
Glu Glu Tyr Tyr Arg Phe Tyr Thr Pro Pro Asn Phe Val Leu Ala
425 430 435
Leu Val Leu Pro Ser Ile Val Ile Leu Gly Lys Ile Ile Leu Phe
440 445 450
Leu Pro Cys Ile Ser Arg Lys Leu Lys Arg Ile Lys Lys Gly Trp
455 460 465
Glu Lys Ser Gln Phe Leu Glu Glu Gly Ile Gly Gly Thr Ile Pro
470 475 480
His Val Ser Pro Glu Arg Val Thr Val Met
485 490

<210> 2

<211> 1891

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7492448CB1

<400> 2

ggggaagcag ctggagtgcg accgccacgg cagccaccct gcaaccgcca gtcggaggtg 60
cagtccgtag gccctggccc ccgggtgggc ccttggggag tcggcgccgc tcccgaggag 120
ctgcaaggct cgcccctgcc cggcgtggag ggcgcggggg gcgcggagaa agtgaagaga 180
ggaaattgga aaattgtgag tggaccttct gatactgctc ctccctgcgt ggaaaagggg 240
aaagaactgc atgcatatta ttcagcgtcc tatattcaaa ggatattctt ggtgatcttg 300
gaagtgtccg tatcatggaa tcaatctcta tgatgggaag ccctaagagc cttagtgaag 360
cttgtttacc taatggcata aatggtatca aagatgcaag gaaggtcact gtaggtgtga 420
ttggaagtgg agattttgcc aaatccttga ccattcgact tattagatgc ggctatcatg 480
tggtcatagg aagtagaaat cctaagtttg cttctgaatt ttttcctcat gtggtagatg 540

PC-0037 US

tcactcatca tgaagatgct ctcacaaaaa caaatataat atttgttgct atacacagag 600
aacattatac ctccctgtgg gacctgagac atctgcttgt gggtaaaatc ctgattgatg 660
tgagcaataa catgaggata aaccagtacc cagaatccaa tgctgaatat ttggcttcat 720
tattcccaga ttctttgatt gtcaaaggat ttaatgttgt ctcagcttgg gcaacttcagt 780
taggacctaa ggatgccagc cggcagggtt atatatgcag caacaatatt caagcgcgac 840
aacaggttat tgaacttgcc cgccagttga atttcattcc cattgacttg ggcaccttat 900
catcagccag agagattgaa aatttaccct taccactctt tactctctgg agagggccag 960
tggtggtagc tataagcttg gccacatttt ttttccttta ttctttgtc agagatgtga 1020
ttcatccata tgctagaaac caacagagtg acttttataa aattcctata gagattgtga 1080
ataaaacctt acctatagtt gccattactt tgctctccct agtataacct gcaggtcttc 1140
tggcagctgc ttatcaactt tattacggca ccaagtatag gagatttcca ccttggttgg 1200
aaacctggtt acagtgtaga aaacagcttg gattactaag tttttcttc gctatggtcc 1260
atgttgccca cagcctctgc ttaccgatga gaaggtcaga gagatatttg tttctcaaca 1320
tggtttatca gcaggttcat gcaaatttg aaaactcttg gaatgaggaa gaagtttga 1380
gaattgaaat gtatatctcc tttggcataa tgagccttgg ctactttcc ctctggcag 1440
tcacttctat cccttcagtg agcaatgctt taaactggag agaattcagt tttattcagt 1500
ctacacttgg atatgtcgct ctgctcataa gtactttcca tgttttaatt tatggatgga 1560
aacgagcttt tgaggaagag tactacagat tttatacacc accaaacttt gttcttgctc 1620
ttgttttgcc ctcaattgta attctgggta agattatatt attccttcca tgtataagcc 1680
gaaagctaaa acgaattaaa aaaggctggg aaaagagcca atttctggaa gaaggtattg 1740
gaggaacaat tcctcatgtc tccccggaga gggtcacagt aatgtgatga taaatggtgt 1800
tcacagctgc catataaagt tctactcatg ccattatatt tatgacttct acgttcagtt 1860
acaagtatgc tgtcaaatta tcgtgggttg a 1891

<210> 3

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 7100809H1

<400> 3

ggggaagcag ctggagtgcg accgccacgg cagccaccct gcaaccgcca gtcggaggtg 60
cagtccgtag gccctggccc cgggtggggc ccttggggag tcggcgccgc tcccaggag 120
ctgcaaggct cgccttgcc cggcgtggag ggcgcggggg gcgcggagaa agtgaagaga 180
ggaaattgga aaattgtgag tggaccttct gatactgctc ctcttgctg ggaaaagggg 240
aaagaactgc atgcatatta ttcagcgtcc tatattcaaa ggatattctt ggtgatcttg 300
gaagtgtccg tatcatggaa tcaatctcta tgatgggaag ccctaagagc cttagtga 360
cttgtttacc taatggcata aatggtatca aagatgcaag gaaggtcact gtaggtgtga 420
ttggaagtgg agattttgcc aaatccttga ccattcgact tattagatgc ggctatcatg 480
tggtcatagg aagtagaaat cctaagttgg cttctga 517

<210> 4

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 6912820J1

<400> 4

ggtcactgta ggtgtgattg gaagtggaga ttttgccaaa tccttgacca ttcgacttat 60
tagatgcggc tatcatgtgg tcataggaag tagaaatcct aagtttgctt ctgaattttt 120

PC-0037 US

```
tcctcatgtg gtagatgtca ctcacatga agatgctctc acaaaaacaa atataatatt 180
tggttgctata cacagagaac attatacctc cctgtgggac ctgagacatc tgcttggtggg 240
taaaatcctg attgatgtga gcaataacat gaggataaac cagtaccag aatccaatgc 300
tgaatatttg gcttcattat tcccagattc tttgattgtc aaaggattta atgttggtctc 360
agcttgggca cttcagttag gacctaagga tgccagccgg cagggtttata tatgcagcaa 420
caatattcaa gcgcgacaac aggttattga acttgcccgc cagttgaatt tcattcccat 480
tgacttggga tcc 493
```

<210> 5
<211> 403
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4647117F6

<220>
<221> unsure
<222> 316, 321, 339
<223> a, t, c, g, or other

```
<400> 5
cccagattct ttgattgtca aaggatttaa tgttgtctca gcttgggcac ttcagttagg 60
acctaaggat gccagccggc aggtttatat atgcagcaac aatattcaag cgcgacaaca 120
ggttattgaa cttgcccgc agttgaattt cattcccat gacttgggat ccttatcatc 180
agccagagag attgaaaatt taccctacg actctttact ctctggagag ggccagtggg 240
ggtagctata agcttggcca cttttttttt cctttattcc tttgtcagag atgtgattca 300
tccatattgt agaaanacac ngagtgaact ttacaaacnt tctatagaga ttgtgaataa 360
aaccttacct atagttgcca ttactttgct cccctagta tac 403
```

<210> 6
<211> 560
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 7004364H1

```
<400> 6
acattttttt tccttgatgc ctttgtcaga gatgtgattc atccatattc tagaaaccaa 60
cagagtgaact ttacaaaat tcctatagag attgtgaata aaaccttacc tatagttgcc 120
attactttgc tctccctagt atacctcgca ggtcttctgg cagctgctta tcaactttat 180
tacggcacca agtataggag atttccacct tgggtggaaa cctgggttaca gtgtagaaaa 240
cagcttggat tactaagttt tatcttcgct atggtccatg ttgcctacag cctctgctta 300
ccgatgagaa ggtcagagag atatttggtt ctcaacatgg cttatcagca ggttcattgca 360
aatattgaaa actcttgga tgaggaagaa gtttgagaaa ttgaaatgta tatctccttt 420
ggcataatga gccttggctt actttccctc ctggcagtc cttctatccc ttcagtggagc 480
aatgctttta actggagaga attcagtttt attcagttta caattggata tgctgctctg 540
ctcataagta ctttccatgt 560
```

<210> 7
<211> 265
<212> DNA
<213> Homo sapiens

PC-0037 US

<220>
<221> misc_feature
<223> Incyte ID No: 70351677D1

<400> 7
ctcagtcctgg gtatctgcaa actgcaaaag atccagaatt acaattgagg gcaaaaacaag 60
agcaagaaca aagtttggtg gtgtataaaa tctgtagtac tcttcctcaa aagctcgttt 120
ccatccataa attaaaacat ggaaagtact tatgagcaga gcgacatata caagtgtaga 180
ctgaataaaa ctgaattctc tccagtttaa agcattgctc actgaaggga tagaagtgc 240
tgccaggagg gaaagtaagc caagg 265

<210> 8
<211> 204
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4108079H1

<220>
<221> unsure
<222> 45, 83, 132
<223> a, t, c, g, or other

<400> 8
cagagtttat acaccaccaa actttgttct tgcctgtgtt ttgcnctcag gtgtaattct 60
ggggaagatt gttttattcc ttngtgtata aggcgaaagc taaaacgaat taagaaaggc 120
tggggaaaga gnccgatttc tggaagaagg tctgggaggg acaattcgca tgtcgccccg 180
gagagggtca cagtaatggg atga 204

<210> 9
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4669848H1

<400> 9
ccggagaggg tcacagtaat gtgatgataa atgggtgttca cagctgccat ataaagttct 60
actcatgcca ttatttttat gacttctacg ttcagttaca agtatgctgt caaattatcg 120
tggggtgaaa cttgttaaat gagatttcaa ctgacttagt gatagagttt tcttcaagtt 180
aattttcaca aatgtcatgt ttgccaatat gaatttttct agtcaacata ttattgtaat 240
ttaggtatgt tttgttttgt tttgc 265

<210> 10
<211> 525
<212> DNA
<213> Rattus norvegicus

<220>
<221> misc_feature
<223> Incyte ID No: 702819778T1

PC-0037 US

<400> 10

```
gggatgtgta atgttctcta tggatagcca cgaatattat atttgtcttc gttaaagcgt 60
cttcatgggtg ggtgacgtct accacatgag gaaaaaactc agacgcgaac ttaggatttc 120
tgcttccgat gaccacgtga tagccgcacc tgataagccg aatggtcaga gacttggcaa 180
aatccccact tcctatcacc cccacgggtga ccttccttgc gtctttgata ccgtttatgc 240
cattaggcaa aaacgtctcc agggctcttag ggcttcccat catagagatg gattccatgg 300
tagagactct tctaagatca ccaggaatgc cctgggaatc ttaagggtga gcttctcact 360
cagaggagct ggagggaggc tccttcggcg ctgctggact ctggaactgc ctacgtgtag 420
tgaggagggc ctccgcgcc tcctctcccg gccacggctg cagcgccgcg ccgtggctcc 480
ctcgcgcaa gggcccgcg agctcccggg cctacggagt gctcc 525
```

<210> 11

<211> 339

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: g6572948

<400> 11

```
Met Glu Ser Arg Lys Asp Ile Thr Asn Gln Glu Glu Leu Trp Lys
1 5 10 15
Met Lys Pro Arg Arg Asn Leu Glu Glu Asp Tyr Leu His Lys
20 25 30
Asp Thr Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His
35 40 45
Leu His Gln Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu
50 55 60
Leu Gln His Thr Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile
65 70 75
Lys Ile Ala Ala Ile Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu
80 85 90
Leu Arg Glu Val Ile His Pro Leu Ala Thr Ser His Gln Gln Tyr
95 100 105
Phe Tyr Lys Ile Pro Ile Leu Val Ile Asn Lys Val Leu Pro Met
110 115 120
Val Ser Ile Thr Leu Leu Ala Leu Val Tyr Leu Pro Gly Val Ile
125 130 135
Ala Ala Ile Val Gln Leu His Asn Gly Thr Lys Tyr Lys Lys Phe
140 145 150
Pro His Trp Leu Asp Lys Trp Met Leu Thr Arg Lys Gln Phe Gly
155 160 165
Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala Ile Tyr Ser Leu
170 175 180
Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu Leu Asn Trp
185 190 195
Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp Ile Glu
200 205 210
His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile Val
215 220 225
Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
230 235 240
Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser
245 250 255
Lys Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu
```

$$\begin{array}{ccccccc} \mathbb{N}^{(n)} & \{1, \dots, n\} & \{1, \dots, n\} & \{1, \dots, n\} & \{1, \dots, n\} & \{1, \dots, n\} & \{1, \dots, n\} \\ \text{Thm 1.1} & \text{Thm 1.2} & \text{Thm 1.3} & \text{Thm 1.4} & \text{Thm 1.5} & \text{Thm 1.6} & \text{Thm 1.7} \end{array}$$